

Luis Alvarado-Labarca

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EDUCATION

University of Utah

Master of Science in Computer Science

Aug. 2025 – Dec. 2026

Bachelor of Science in Computer Science, GPA: 3.61

Jan. 2022 – May 2025

Current Coursework

Data Mining

Completed Coursework

Machine Learning, Visualization for Data Science, Database Systems, Foundation of Data Analysis, Computer Security, Data Structures & Algorithms, Software Practice II, Computer Systems, Programming Languages

Awards

Hispanic Scholarship Fund Scholar 2021 & 2023, Utah Flagship Scholarship 2020, QuestBridge Finalist 2020, IBM Accelerate Program Participant 2023

SKILLS

Languages

(*Proficient*): Python, Java, C#, C++, JavaScript, TypeScript, HTML, CSS (*Familiar*): C, SQL, LINQ, AppScript

Technologies

(*Frameworks*): React Native, Expo, Jest, Qt (Libraries): scikit-learn, React, NumPy, Pandas, Matplotlib, D3.js

(*Version Control*): Git (*Tools*) Node.js, Bash, Docker, AWS RDS (*Other*): JSON, XML, Excel

PROJECTS

Passenger Pilot App – TypeScript, Node.js, React Native

Aug. 2024 – Current

A cross-platform application focused on road-tripping. The app will provide users with a custom route based on driving preferences and help road trippers with expense tracking and collaboration among travelers.

- Constructing the UI/UX screens related to expense tracking and trip collaboration as well as connecting to their respective internal API calls
- Authoring interfaces for results from Google Cloud Vision API requests
- Designed the ER diagram for the backend MySQL database, which our developers used to build the database
- Reviewing 4 merge requests a week across the full stack by examining functionality, code style, and edge cases

Learning Management System Database Backend (LMS Database) – C#, SQL, LINQ

Jan. 2024 – Apr. 2024

A backend server that would receive internal API requests from the LMS frontend and handle those requests.

- Designed and developed a backend database using C#, SQL, and LINQ for a LMS web application, which included features like enrollment, assignment creation, assignment grading, and course catalogs
- Implemented C# controllers to handle UX interactions from the web app, updating the MySQL database
- Connected the MySQL database to the codebase using MySQLConnector, ADO.NET, and Entity Framework as the ORM

Salt Lake City Public Library Seed Program Inventory Dashboard – AppScript

Aug. 2023 – Oct. 2023

An automated inventory management system that employees and patrons could use to update and check inventory.

- Developed Google Sheets inventory system for the Salt Lake City Public Library's seed-sharing program using Google Forms for data collection and updates
- Automated inventory management using AppScript to update inventory availability, enabling analysis of seed checkouts and facilitating easier inventory searches, while improving efficiency by eliminating the need for manual updates
- Constructed a dashboard UI/UX in Google Sheets that displayed patron usage and seed checkouts of the seed library

WORK EXPERIENCE

Kahlert School of Computing — Teaching Assistant

Aug. 2024 – Current

- Assisting with Intro to Computer Programming by working with the professor to support learning for students
- Hosting weekly office hours and labs for 10–30 students to help with practice problems and homework questions

Salt Lake City Public Library — Library Assistant

Jan. 2022 – Oct. 2023

- Collaborated with librarians to improve library services and programs for community members
- Involved in supporting digital inclusion among community members through library technology programs